

**FIG.** 1

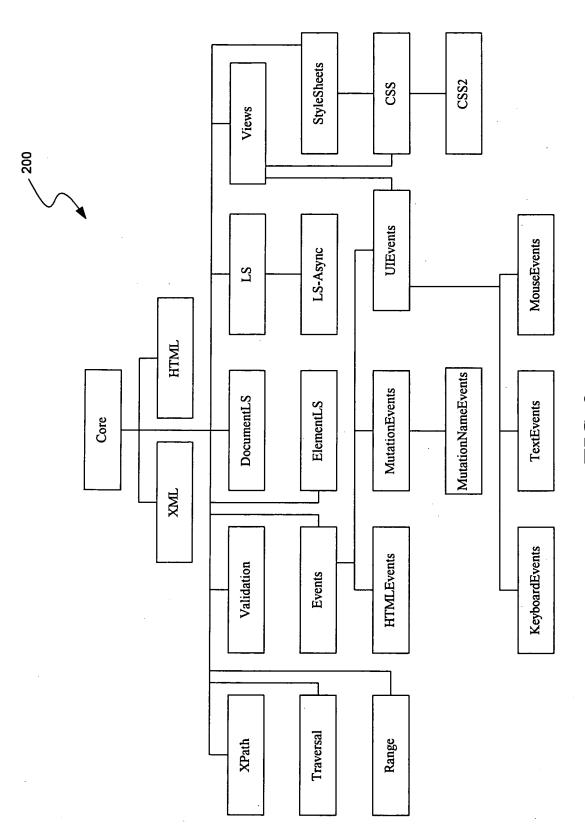


FIG. 2

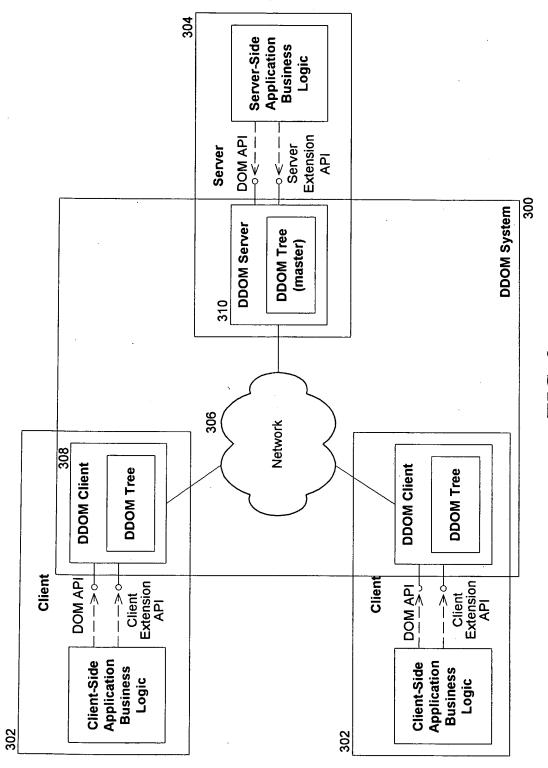


FIG. 3

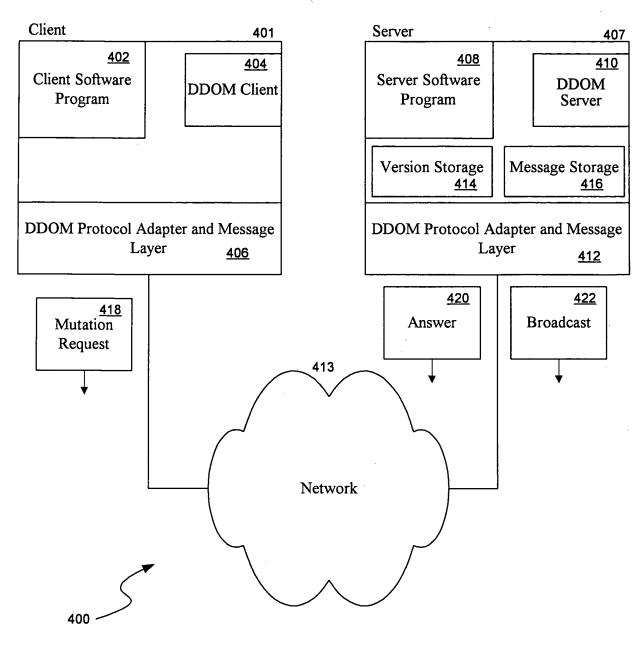
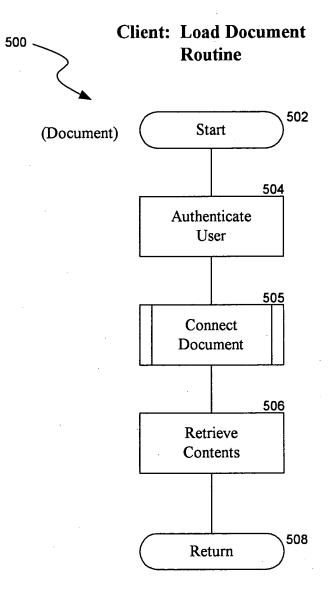
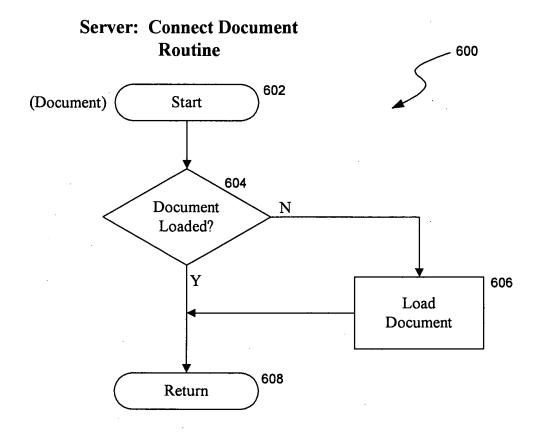


FIG. 4

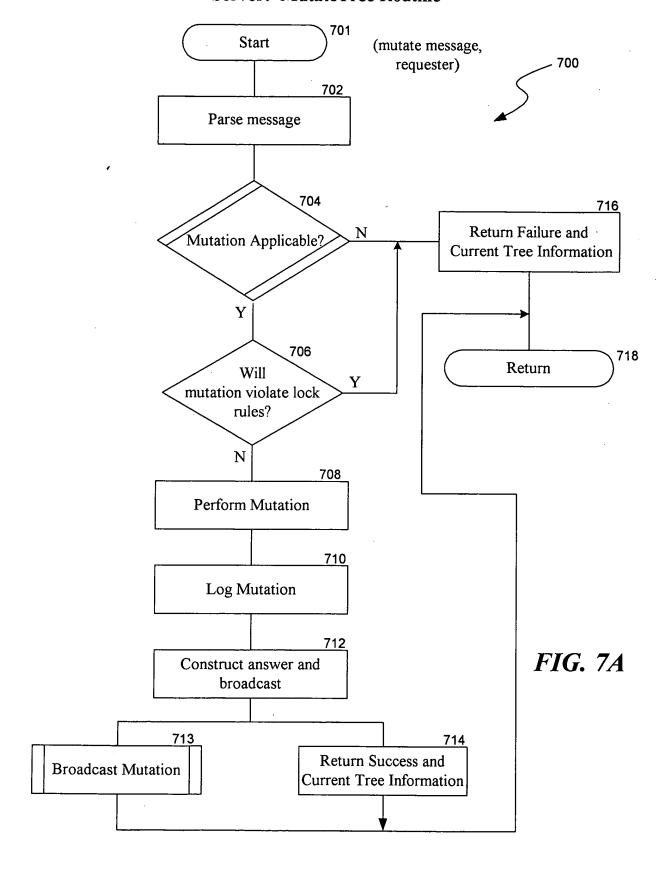


*FIG.* 5



**FIG.** 6

Server: MutateTree Routine



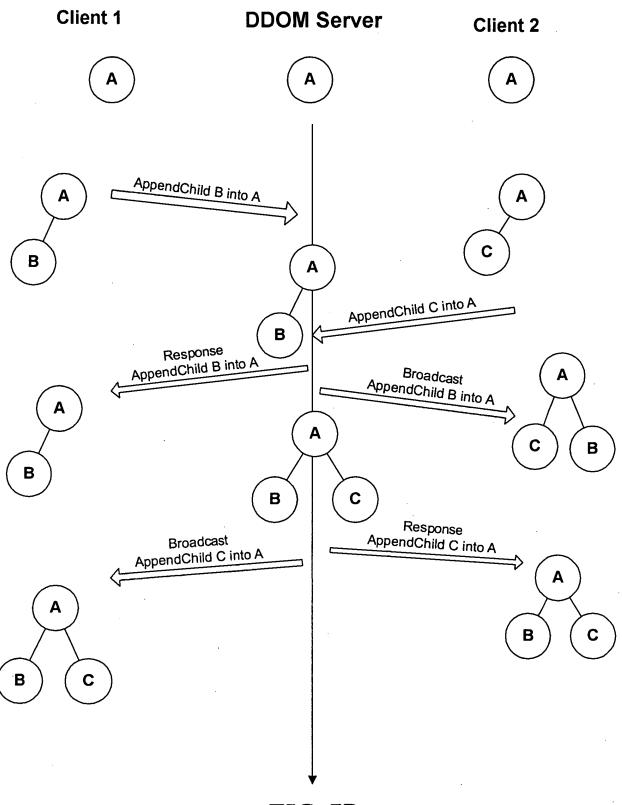


FIG. 7B

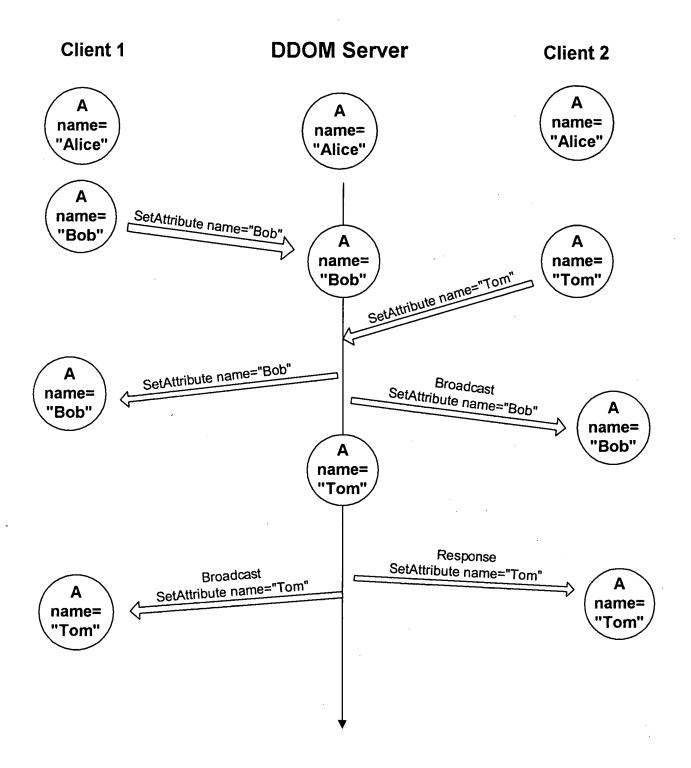


FIG. 7C

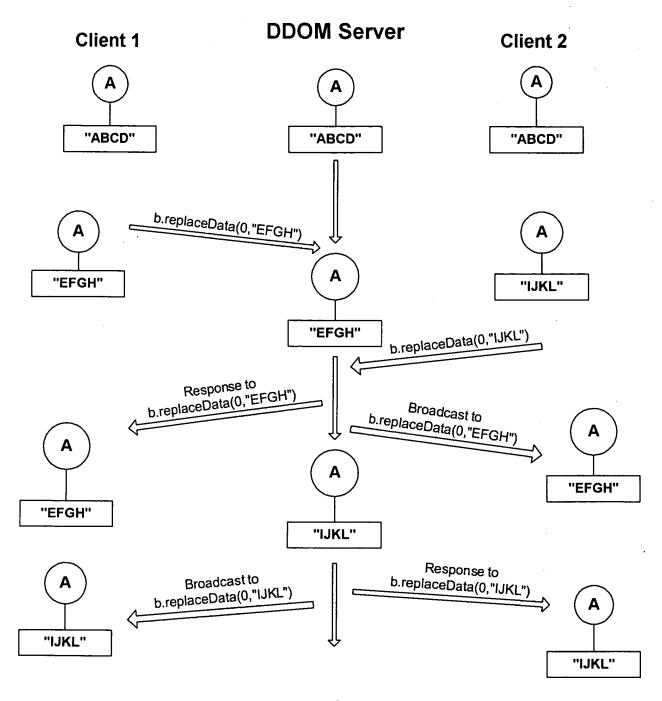


FIG. 7D

## Server: Broadcast Mutation Routine 800 802 (broadcast message, Start requester) Select first privilege group from all privilege groups 806 Filter broadcast message Select first online client in selected privilege group 810 Send broadcast to selected client 812 Select next client 814 N All clients selected? Y 816 Select next group 818 N All groups selected?

FIG. 8

Return

Y

820

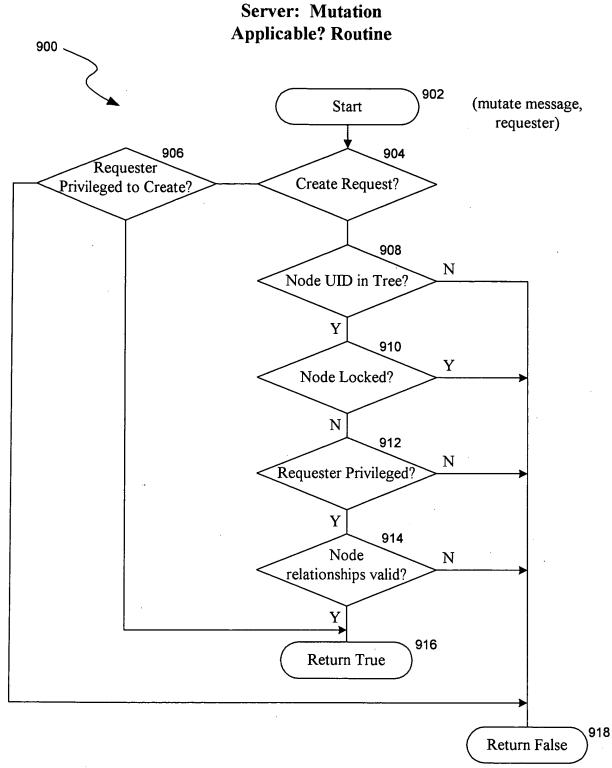


FIG. 9

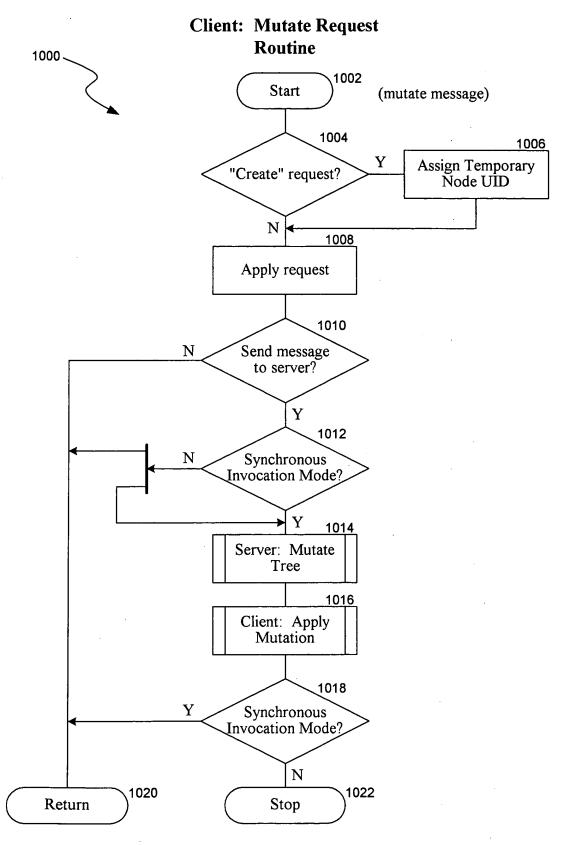


FIG. 10A

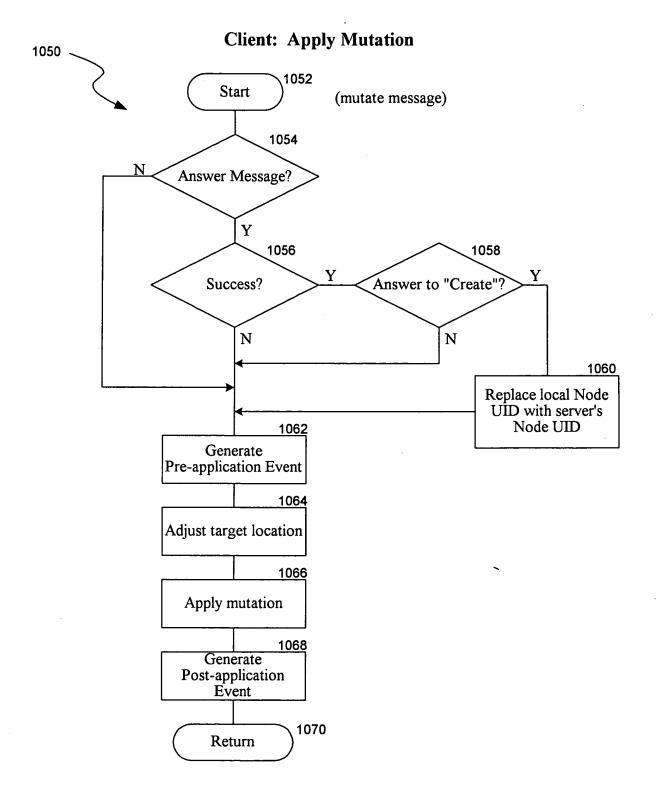


FIG. 10B

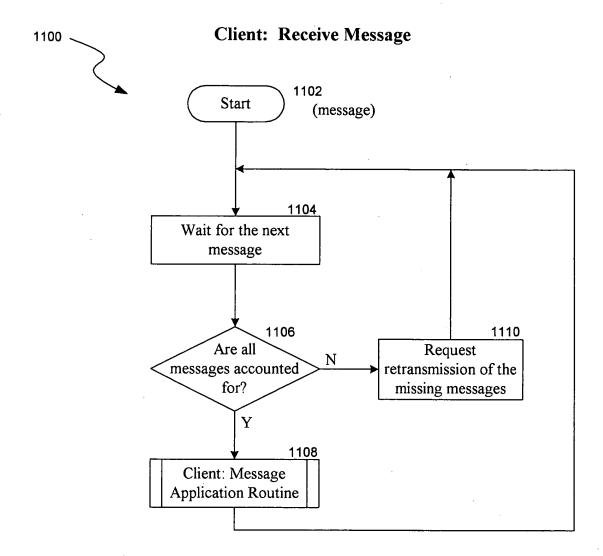


FIG. 11

## **RollForward Routine**

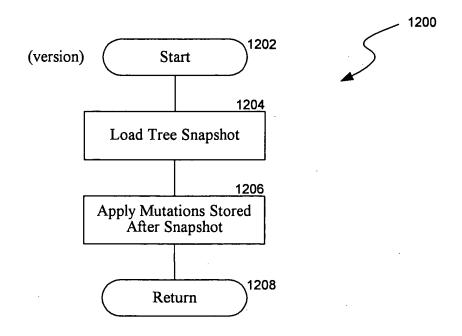


FIG. 12

## **RollBack Routine**

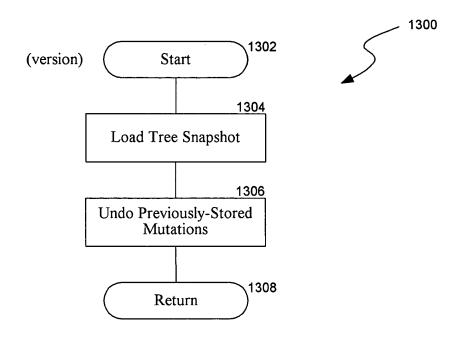
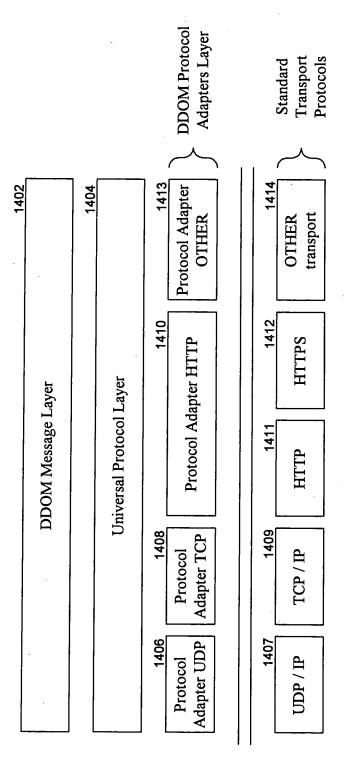


FIG. 13



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FIG. 14

